

Description

Duplex 2205 is a chromium molybdenum blend which combines properties of both ferritic and austenitic steels. Having both a high resistance to corrosion fatigue, corrosion cracking, and erosion, Duplex 2205 is used in oil and gas, desalination plants, and industries handling chlorides.

Product Capabilities

Form Name	Size Range	Schedules	Specifications
Welded Pipe	1/2"-36"	10S, 20S, 40S, 80S	ASTM A790 / ASME SA790 ASTM A928 / ASME SA928
Seamless Pipe	1/2"-36"	10S, 40S, 80S, 160, XXH	ASTM A790 / ASME SA790
Buttweld Fittings	1/2"-36"	10S, 40S, 80S, 160	ASTM A815 / ASME SA815
Flanges	1/2"-36"	150#, 300#, 600#	ASTM A182 / ASME SA182
Pressure Fittings	1/2"-2"	3000# THRD/SW	ASTM A182 / ASME SA182

Limiting Chemical Composition %

C	Cr	Fe	Mn	Mo	N	Ni	P	S	Si
MAX 0.030	21.0-23.0	Balance	MAX 2.0	2.50-3.50	0.08-0.20	4.50-6.50	MAX 0.03	MAX 0.02	MAX 1.0

Typical Industrial Applications

- Chemical process vessels, piping and heat exchangers
- Pulp mill digesters, bleach washers, chip pre-steaming vessels
- Food processing equipment
- Oil field piping and heat exchangers
- Flue gas desulfurization equipment

Tensile Requirements

Tensile Strength ksi (min.)	Yield Strength ksi (min.)
65	90